IN THE CLAIMS

Please amend the claims as follows:

1. (original) A method for identifying an environmental source emitting a base frequency and waveform signal, the method comprising the steps of:

a) measuring the waveform signal of the source in a predetermined time-interval;

b) estimating the emitted waveform characteristic of the measured waveform;

c) determining a number of actions based on the estimated characteristic.

2. (original) A method according to claim 1, wherein the determined number of actions comprises comparison of the waveform characteristic with a unique waveform characteristic with affiliated information stored in a memory.

3. (original) A method according to claim 2, wherein the affiliated information comprises location parameters.

4. (original) A method according to claim 1, wherein a fast Fourier transform derives the base frequency of the estimated waveform characteristic.

5. (original) A method according to claim 1, wherein undesired signals may be suppressed.

6. (original) A method according to claim 1, wherein the base frequency is refined by finding a maximum in an autocorrelation function of the estimated waveform characteristic.

7. (original) A method according to claim 1, wherein the estimated waveform characteristic is computed by averaging a number of estimated waveform characteristics.

8. (original) A method according to claim 1, wherein a phase shift is applied to the estimated waveform.

9. (original) A method according to claim 1, wherein the determined action comprises storing of the estimated waveform characteristic as a unique waveform characteristic.

10. (original) A method according to claim 1, wherein the method allows locating a relative orientation of a detector device and the environmental source by use of two or more emission detectors.

11. (original) A method according to claim 1, wherein the method may predict and suppresses a specific periodic signal.

12. (original) A method according to claim 1, wherein the environmental source is a source emitting light.

13. (original) A method according to claim 1, wherein the environmental source is a source emitting sonic signals.

14. (original) A method according to claim 1, wherein the environmental source is a source emitting electromagnetic signals.

15. (original) A method according to claim 1, wherein the environmental source is a source emitting mechanical movement signals.

16. (original) A system for identifying an environmental source emitting a base frequency and waveform signal, the system comprising means for:

a) measuring the waveform signal of the source in a predetermined time-interval;

b) estimating the emitted waveform characteristic of the measured waveform;

c) determining a number of actions based on the estimated characteristic.

17. (original) A system according to claim 16, wherein the determined number of actions comprises comparison of the waveform characteristic with a unique waveform characteristic with affiliated information stored in a memory.

18. (original) A system according to claim 17, wherein the affiliated information comprises location parameters.

19. (currently amended) A computer readable medium containing a program for making a processor carry out the method of ~~any of the claims 1 through 15~~claim 1.